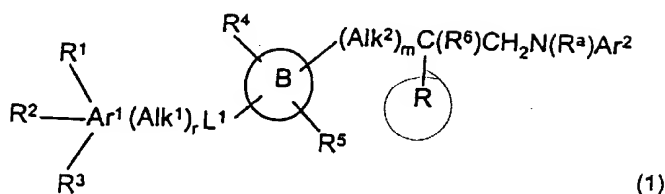


WHAT IS CLAIMED IS:

1. A compound of the formula:

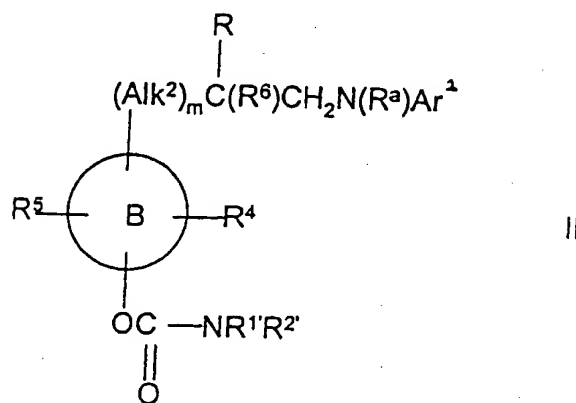


wherein

Ar¹ is an aromatic or heteroaromatic group;
 R¹, R², R³, R⁴ and R⁵ which may be the same or different is each an atom
 or group -L²(Alk³)_tL³(R⁷)_u in which L² and L³ which may be the same or
 different is each covalent bond or a linker atom or group, t is zero or the
 integer 1, u is an integer 1, 2 or 3, Alk³ is an aliphatic or heteroaliphatic
 chain and R⁷ is a hydrogen or halogen atom or a group selected from
 alkyl, -OR⁸, where R⁸ is a hydrogen atom or an optionally substituted alkyl
 group, -SR⁸, -NR⁸R⁹, where R⁹ is as just defined for R⁸ and may be the
 same or different, -NO₂, -CN, -CO₂R⁸, -SO₃H, -SOR⁸, -SO₂R⁸, -OCO₂R⁸,
 -CONR⁸R⁹, -OCONR⁸R⁹, -CSNR⁸R⁹, -COR⁸, -OCOR⁸, -N(R⁸)COR⁹,
 -N(R⁸)CSR⁹, -SO₂N(R⁸)(R⁹), -N(R⁸)SO₂R⁹, -N(R⁸)CON(R⁹)(R¹⁰), where
 R¹⁰ is a hydrogen atom or an optionally substituted alkyl group,
 -N(R⁸)CSN(R⁹)(R¹⁰) or -N(R⁸)SO₂N(R⁹)(R¹⁰);
 Alk¹ is an optionally substituted aliphatic or heteroaliphatic chain;
 L¹ is a covalent bond or a linker atom or group;
 Alk² is a straight or branched alkylene chain;
 m is zero or an integer 1;
 R⁶ is a hydrogen atom or a methyl group;
 r is zero or the integer 1;
 R is a carboxylic acid (-CO₂H) or a derivative thereof;

R^a is a hydrogen atom or a methyl group;
 Ar^2 is an optionally substituted aromatic or heteroaromatic group;
 B is a nitrogen containing heteroaryl group;
 and the salts, solvates, hydrates and N-Oxides thereof.

2. A compound of the formula:



wherein R , R^a , R^4 , R^5 , R^6 , Alk^2 , B , m and Ar^2 are as defined above and R^1 and R^2

are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, aryl, cycloalkyl, substituted cycloalkyl, heterocyclic, heteroaryl or R^1 and R^2 , together with the nitrogen atom to which they are attached, are joined to form an optionally substituted heterocyclic ring; and the salts, solvates, hydrates and N-oxides thereof.

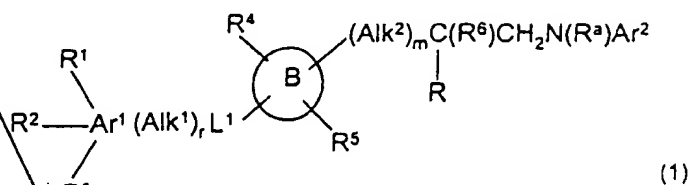
3. The compound according to Claim 2 wherein R^1 and R^2 are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, cycloalkyl, substituted cycloalkyl, or R^1 and R^2 , together with the nitrogen atom to which they are attached, are joined to form an optionally substituted heterocyclic ring provided that said substituted alkyl,

Sub
A17

0994013-0299
F06T20 F210T660

substituted alkenyl and substituted cycloalkyl do not carry an aryl, substituted aryl, heteroaryl or substituted heteroaryl group.

4. A compound of the formula:



wherein

Ar^1 is an aromatic or heteroaromatic group;

R^1 , R^2 , R^3 , R^4 and R^5 which may be the same or different is each an atom or group $-\text{L}^2(\text{Alk}^3)_t \text{L}^3(\text{R}^7)_u$ in which L^2 and L^3 which may be the same or different is each a covalent bond or a linker atom or group, t is zero or the integer 1, u is an integer 1, 2 or 3, Alk^3 is an aliphatic or heteroaliphatic chain and R^7 is a hydrogen or halogen atom or a group selected from alkyl, $-\text{OR}^8$, where R^8 is a hydrogen atom or an optionally substituted alkyl group, $-\text{SR}^8$, $-\text{NR}^8\text{R}^9$, where R^9 is as just defined for R^8 and may be the same or different, $-\text{NO}_2$, $-\text{CN}$, $-\text{CO}_2\text{R}^8$, $-\text{SO}_3\text{H}$, $-\text{SOR}^8$, $-\text{SO}_2\text{R}^8$, $-\text{OCO}_2\text{R}^8$, $-\text{CONR}^8\text{R}^9$, $-\text{OCONR}^8\text{R}^9$, $-\text{CSNR}^8\text{R}^9$, $-\text{COR}^8$, $-\text{OCOR}^8$, $-\text{N}(\text{R}^8)\text{COR}^9$, $-\text{N}(\text{R}^8)\text{CSR}^9$, $-\text{SO}_2\text{N}(\text{R}^8)(\text{R}^9)$, $-\text{N}(\text{R}^8)\text{SO}_2\text{R}^9$, $-\text{N}(\text{R}^8)\text{CON}(\text{R}^9)(\text{R}^{10})$, where R^{10} is a hydrogen atom or an optionally substituted alkyl group, $-\text{N}(\text{R}^8)\text{CSN}(\text{R}^9)(\text{R}^{10})$ or $-\text{N}(\text{R}^8)\text{SO}_2\text{N}(\text{R}^9)(\text{R}^{10})$;

Alk^1 is an optionally substituted aliphatic or heteroaliphatic chain;

L^1 is a covalent bond or a linker atom or group;

Alk^2 is a straight or branched alkylene chain;

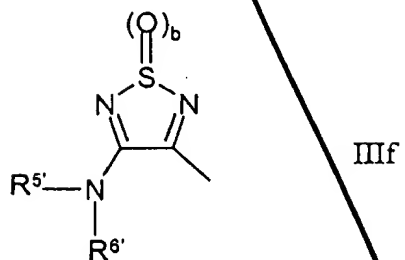
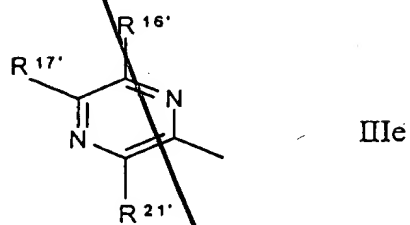
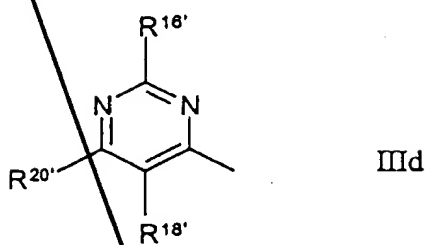
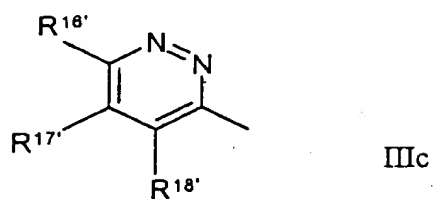
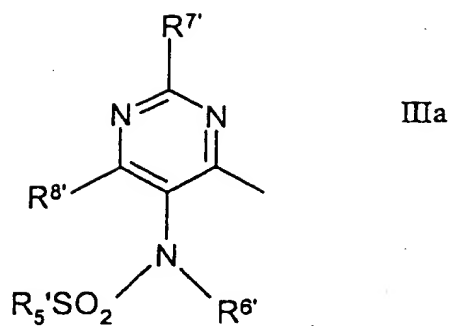
m is zero or an integer 1;

R^6 is a hydrogen atom or a methyl group;

~~Ar² is selected from the group consisting of moieties of formula IIIa, IIIc, IIIId, IIIe and IIIf:~~

Sub
A17
cont.

1. The first of these is the fact that the
 2.
 3.
 4.
 5.
 6.
 7.
 8.
 9.
 10.
 11.
 12.
 13.
 14.
 15.
 16.
 17.
 18.
 19.
 20.
 21.
 22.
 23.
 24.
 25.
 26.
 27.
 28.
 29.
 30.
 31.
 32.
 33.
 34.
 35.
 36.
 37.
 38.
 39.
 40.
 41.
 42.
 43.
 44.
 45.
 46.
 47.
 48.
 49.
 50.
 51.
 52.
 53.
 54.
 55.
 56.
 57.
 58.
 59.
 60.
 61.
 62.
 63.
 64.
 65.
 66.
 67.
 68.
 69.
 70.
 71.
 72.
 73.
 74.
 75.
 76.
 77.
 78.
 79.
 80.
 81.
 82.
 83.
 84.
 85.
 86.
 87.
 88.
 89.
 90.
 91.
 92.
 93.
 94.
 95.
 96.
 97.
 98.
 99.
 100.
 101.
 102.
 103.
 104.
 105.
 106.
 107.
 108.
 109.
 110.
 111.
 112.
 113.
 114.
 115.
 116.
 117.
 118.
 119.
 120.
 121.
 122.
 123.
 124.
 125.
 126.
 127.
 128.
 129.
 130.
 131.
 132.
 133.
 134.
 135.
 136.
 137.
 138.
 139.
 140.
 141.
 142.
 143.
 144.
 145.
 146.
 147.
 148.
 149.
 150.
 151.
 152.
 153.
 154.
 155.
 156.
 157.
 158.
 159.
 160.
 161.
 162.
 163.
 164.
 165.
 166.
 167.
 168.
 169.
 170.
 171.
 172.
 173.
 174.
 175.
 176.
 177.
 178.
 179.
 180.
 181.
 182.
 183.
 184.
 185.
 186.
 187.
 188.
 189.
 190.
 191.
 192.
 193.
 194.
 195.
 196.
 197.
 198.
 199.
 200.
 201.
 202.
 203.
 204.
 205.
 206.
 207.
 208.
 209.
 210.
 211.
 212.
 213.
 214.
 215.
 216.
 217.
 218.
 219.
 220.
 221.
 222.
 223.
 224.
 225.
 226.
 227.
 228.
 229.
 230.
 231.
 232.
 233.
 234.
 235.
 236.
 237.
 238.
 239.
 240.
 241.
 242.
 243.
 244.
 245.
 246.
 247.
 248.
 249.
 250.
 251.
 252.
 253.
 254.
 255.
 256.
 257.
 258.
 259.
 260.
 261.
 262.
 263.
 264.
 265.
 266.
 267.
 268.
 269.
 270.
 271.
 272.
 273.
 274.
 275.
 276.
 277.
 278.
 279.
 280.
 281.
 282.
 283.
 284.
 285.
 286.
 287.
 288.
 289.
 290.
 291.
 292.
 293.
 294.
 295.
 296.
 297.
 298.
 299.
 300.
 301.
 302.
 303.
 304.
 305.
 306.
 307.
 308.
 309.
 310.
 311.
 312.
 313.
 314.
 315.
 316.
 317.
 318.
 319.
 320.
 321.
 322.
 323.
 324.
 325.
 326.
 327.
 328.
 329.
 330.
 331.
 332.
 333.
 334.
 335.
 336.
 337.
 338.
 339.
 340.
 341.
 342.
 343.
 344.
 345.
 346.
 347.
 348.
 349.
 350.
 351.
 352.
 353.
 354.
 355.
 356.
 357.
 358.
 359.
 360.
 361.
 362.
 363.
 364.
 365.
 366.
 367.
 368.
 369.
 370.
 371.
 372.
 373.
 374.
 375.
 376.
 377.
 378.
 379.
 380.
 381.
 382.
 383.
 384.
 385.
 386.
 387.
 388.
 389.
 390.
 391.
 392.
 393.
 394.
 395.
 396.
 397.
 398.
 399.
 400.
 401.
 402.
 403.
 404.
 405.
 406.
 407.
 408.
 409.
 410.
 411.
 412.
 413.
 414.
 415.
 416.
 417.
 418.
 419.
 420.
 421.
 422.
 423.
 424.
 425.
 426.
 427.
 428.
 429.
 430.
 431.
 432.
 433.
 434.
 435.
 436.
 437.
 438.
 439.
 440.
 441.
 442.
 443.
 444.
 445.
 446.
 447.
 448.
 449.
 450.
 451.
 452.
 453.
 454.
 455.
 456.
 457.
 458.
 459.
 460.
 461.
 462.
 463.
 464.
 465.
 466.
 467.
 468.
 469.
 470.
 471.
 472.
 473.
 474.
 475.
 476.
 477.
 478.
 479.
 480.
 481.
 482.
 483.
 484.
 485.
 486.
 487.
 488.
 489.
 490.
 491.
 492.
 493.
 494.
 495.
 496.
 497.
 498.
 499.
 500.
 501.
 502.
 503.
 504.
 505.
 506.
 507.
 508.
 509.
 510.
 511.
 512.
 513.
 514.
 515.
 516.
 517.
 518.
 519.
 520.
 521.
 522.
 523.
 524.
 525.
 526.
 527.
 528.
 529.
 530.
 531.
 532.
 533.
 534.
 535.
 536.
 537.
 538.
 539.
 540.
 541.
 542.
 543.
 544.
 545.
 546.
 547.
 548.
 549.
 550.
 551.
 552.
 553.
 554.
 555.
 556.
 557.
 558.
 559.
 560.
 561.
 562.
 563.
 564.
 565.
 566.
 567.
 568.
 569.
 570.
 571.
 572.
 573.
 574.
 575.
 576.
 577.
 578.
 579.
 580.
 581.
 582.
 583.
 584.
 585.
 586.
 587.
 588.
 589.
 590.
 591.
 592.
 593.
 594.
 595.
 596.
 597.
 598.
 599.



where R^{5'} is selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkenyl, aryl, substituted aryl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, heterocyclic, substituted heterocyclic, heteroaryl and substituted heteroaryl;

R^{6'} is selected from the group consisting of hydrogen, alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, heterocyclic, substituted heterocyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, and -SO₂R^{10'} where R^{10'} is selected from the group consisting of alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, heterocyclic, substituted heterocyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl;

R^{7'} and R^{8'} are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, substituted heterocyclic and halogen;

R^{16'} and R^{17'} are independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, amino, substituted amino, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, substituted heterocyclic and halogen; and

R^{18'} is selected from the group consisting of alkyl, substituted alkyl, alkoxy, substituted alkoxy, amino, substituted amino, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic and substituted heterocyclic;

R^{20'} is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, substituted heterocyclic and halogen;

002010-684-137

b is 1 or 2;

SECRET

6. A method for binding VLA-4 in a biological sample which method comprises contacting the biological sample with a compound according to any of 1-4 under conditions wherein said compound binds to VLA-4.

8. The method according to Claim 7 wherein said inflammatory condition is selected from the group consisting of asthma, Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes, inflammatory bowel disease, multiple sclerosis, rheumatoid arthritis, tissue transplantation, tumor metastasis, meningitis, hepatitis, stroke, nephritis, retinitis, atopic dermatitis, psoriasis, myocardial infarction and acute leukocyte-mediated lung injury.